

IN THE CLAIMS:

Please amend the Claims as follows:

1. (Currently amended) An energy meter for managing the distribution of electrical
5 energy, said meter comprising:

at least one sensor coupled with an electric circuit and operative to sense at least one electrical parameter in said electric circuit and generate at least one analog signal indicative thereof;

a meter housing;

10 at least one analog to digital converter located in said meter housing and coupled with said at least one sensor and operative to receive said at least one analog signal and convert said at least one analog signal to at least one first digital signal;

15 a communications port located in said meter housing and operative to facilitate communications of at least one second digital signal between said energy meter and a slave device coupled with said energy meter using a first protocol;

a processor located in said meter housing and coupled with said at least one analog to digital converter and further coupled with said communications port, said processor operative to perform a power management function on said at least one second digital signal and generate an output result; and

20 a server module located in said meter housing and coupled with said processor and operative to facilitate communication of said output result to a client application over a digital network using a second protocol to manage the distribution of electrical energy.

- 25 2. (Original) The energy meter of claim 1 wherein said first protocol comprises a master protocol.

3. (Original) The energy meter of claim 2 wherein said master protocol comprises the Modbus RTU protocol.

4. (Currently amended) The energy meter of claim 2 wherein said master protocol comprises ION® protocol.

5. (Original) The energy meter of claim 2 wherein said master protocol comprises distributed networking protocol ("DNP").
6. (Original) The energy meter of claim 1 wherein said second protocol comprises a hyper text transfer protocol ("HTTP") based protocol.
- 5 7. (Original) The energy meter of claim 6 wherein said HTTP based protocol comprises hypertext markup language ("HTML").
8. (Original) The energy meter of claim 6 wherein said HTTP based protocol comprises extensible markup language ("XML").
9. (Original) The energy meter of claim 6 wherein said HTTP based protocol comprises simple mail transport protocol ("SMTP").
- 10 10. (Original) The energy meter of claim 1 wherein said first protocol and said second protocol are similar.
11. (Original) The energy meter of claim 1 wherein said digital network comprises an Ethernet network.
- 15 12. (Original) The energy meter of claim 1 wherein said digital network comprises a wireless network.
13. (Original) The energy meter of claim 1 wherein said energy meter comprises at least one object oriented program module.
- 20 14. (Original) The energy meter of claim 1 wherein said meter is operative to request first digital data from said slave device, said slave device operative to provide said first digital data upon request.
15. (Currently amended) The energy meter of claim 13 14 wherein said meter is further operative to request second digital data from at least a second slave device coupled with said meter, said second slave device being operative to provide said second digital data upon request.
- 25 16. (Original) The energy meter of claim 1 wherein said at least one second digital signal comprises digital data generated by said slave device.

17. (Currently amended) A system for managing the distribution of electrical energy in an electric circuit, said system comprising:
- (a) a first digital network comprising a first protocol;
 - (b) a second digital network comprising a second protocol different from said first protocol;
 - (c) a first slave device coupled with said first digital network, said first slave device operative to facilitate communication of digital data onto said first digital network using said first protocol;
 - (d) a master device coupled with said first digital network and said second digital network and further comprising:
 - (i) at least one sensor coupled with said electric circuit and operative to sense at least one electrical parameter in said electric circuit and generate at least one analog signal indicative thereof;
 - (ii) a meter housing;
 - (iii) at least one analog to digital converter located in said meter housing and coupled with said at least one sensor and operative to receive said at least one analog signal and convert said at least one analog signal to a digital signal representative thereof;
 - (iv) a communications port located in said meter housing and operative to couple said master device with said first digital network and to facilitate receipt of said digital data from said first digital network using said first protocol;
 - (v) a processor located in said meter housing and coupled with said analog to digital converter and further coupled with said communications port, said processor operative to perform a power management function on said digital data and generate an output result therefrom;
 - (vi) a server module located in said meter housing and coupled with said processor and operative to facilitate communication of said output result over

said second digital network using said second protocol to manage the distribution of electrical energy in said electric circuit.

18. (Original) The system of claim 17 further comprising a second slave device coupled with said first digital network and further operative to communicate with said master device using said first protocol.
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19. (Original) The system of claim 18 wherein said master device receives a plurality of said digital data from both said first slave device and said second slave device, said processor operative to perform said power management function on said digital data and generate said output result.
- 10 20. (Original) The system of claim 17 wherein said power management function comprises generating an alarm message.
21. (Original) The system of claim 17 wherein said power management function comprises generating a load shedding command.
- 15 22. (Original) The system of claim 17 wherein said power management function comprises generating a power factor control command.
23. (Original) The system of claim 17 wherein said first slave device is an energy meter.
24. (Original) The system of claim 17 further wherein said first slave device facilitates communication of said digital data in response to a request from said master device.
25. (Original) The system of claim 17 wherein said first slave device is further coupled with a load, said slave device operative to at least one of monitor and control said load.
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26. (Currently amended) A system for managing the distribution of electrical energy in an electric circuit, said system comprising:
 - (a) a first digital network;
 - (b) a master device and a slave device each coupled with said first digital network and each further comprising:
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(i) at least one sensor coupled with said electric circuit and operative to sense at least one electrical parameter in said electric circuit and generate at least one analog signal indicative thereof;

5 (ii) a meter housing;

(iii) at least one analog to digital converter located in said meter housing and coupled with said at least one sensor and operative to receive said at least one analog signal and convert said at least one analog signal to digital data representative thereof;

10 (iv) a communications port located in said meter housing and coupled with said at least one analog to digital converter and operative to facilitate communication of said digital data onto said first digital network;

(v) a processor located in said meter housing and coupled with said at least one analog to digital converter, said processor operative to perform a power management function on said digital data and generate an output result;

15 wherein said master device further comprises a server module located in said meter housing and coupled with said processor of said master device and operative to facilitate communication of said output result on a second digital network using a first protocol, said first protocol comprising an open protocol, to manage the distribution of electrical energy in said electric circuit.

- 20 27. (Original) The system of claim 26 wherein said master device comprises a revenue meter.
28. (Original) The system of claim 26 wherein said master device is operative to communicate with a plurality of slave devices.
29. (Original) The system of claim 26 wherein said master device is operative to communicate with a plurality of slave devices using an RS232 protocol.
- 25 30. (Previously presented) The system of claim 26 wherein said master device is operative to communicate with a plurality of slave devices using an RS485 protocol.

31. (Original) The system of claim 26 wherein said slave device facilitates communication using a second protocol, said second protocol different from said first protocol, further wherein said second protocol comprising a closed protocol.
32. (Original) The system of claim 31 wherein said closed protocol comprises Modbus RTU protocol.
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33. (Currently amended) The system of claim 31 wherein said closed protocol comprises ION® protocol.
34. (Currently amended) The system of claim 31 wherein said closed protocol comprises distributed networking protocol (“DNP”).
- 10 35. (Currently amended) The system of claim 26 wherein said open protocol comprises a hypertext transport protocol (“HTTP”) based protocol.
36. (Currently amended) The system of claim 35 wherein said HTTP based protocol comprises extensible markup language (“XML”).
- 15 37. (Currently amended) The system of claim 35 wherein said HTTP based protocol comprises hypertext markup language (“HTML”).
38. (Currently amended) The system of claim 35 wherein said HTTP based protocol comprises simple mail transport protocol (“SMTP”).
39. (Original) The system of claim 26 wherein said master device is operative to export said output result to a third device.
- 20 40. (Original) The system of claim 39 wherein said third device is operative to perform a power management function on said digital data.
41. (Original) The system of claim 40 wherein said power management function comprises an aggregation function.
42. (Original) The system of claim 40 wherein said power management function comprises a billing function.
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43. (Original) The system of claim 40 wherein said power management function comprises a protection function.

44. (Original) The system of claim 40 wherein said power management function comprises a control function.
 45. (Original) The system of claim 26 wherein said first digital network is coupled with said second digital network.
- 5 46. (Previously presented) A method for managing the distribution of electrical energy in an electric circuit, said method comprising:
- (a) Computing a first data value in a slave device coupled with a first network, said first network implementing a master protocol;
 - (b) transmitting said first data value to a master device from said slave device over said first network;
 - 10 (c) receiving said first data value by said master device;
 - (d) receiving at least one analog parameter by said master device from a power distribution network coupled with said master device;
 - (e) performing at least one power management function by said master device on said first data value and generating a result; and
 - 15 (f) providing said result by said master device to a client application coupled with a second network, said second network implementing an internet protocol, to manage the distribution of electrical energy in said electric circuit.
47. (Currently amended) The method of claim 46, wherein (a) further comprises receiving a command via said first network ~~from a~~ from said master device coupled with said first network.
- 20 48. (Currently amended) The method of claim 47, wherein (b) is in response to a ~~said~~ said command.